

DEPARTMENT OF REGULATORY AND ECONOMIC RESOURCES (RER) BOARD AND CODE ADMINISTRATION DIVISION

NOTICE OF ACCEPTANCE (NOA)

MIAMI-DADE COUNTY
PRODUCT CONTROL SECTION
11805 SW 26 Street, Room 208
Miami, Florida 33175-2474
T (786) 315-2590 F (786) 315-2599

www.miamidade.gov/economy

Entegra Roof Tile, LLC 1289 NE 9th Ave Okeechobee, FL 34972

SCOPE:

This NOA is being issued under the applicable rules and regulations governing the use of construction materials. The documentation submitted has been reviewed and accepted by Miami-Dade County RER -Product Control Section to be used in Miami-Dade County and other areas where allowed by the Authority Having Jurisdiction (AHJ).

This NOA shall not be valid after the expiration date stated below. The Miami-Dade County Product Control Section (in Miami-Dade County) and/or the AHJ (in areas other than Miami-Dade County) reserve the right to have this product or material tested for quality assurance purposes. If this product or material fails to perform in the accepted manner, the manufacturer will incur the expense of such testing and the AHJ may immediately revoke, modify, or suspend the use of such product or material within their jurisdiction. RER reserves the right to revoke this acceptance, if it is determined by Miami-Dade County Product Control Section that this product or material fails to meet the requirements of the applicable building code.

This product is approved as described herein, and has been designed to comply with the Florida Building Code including the High Velocity Hurricane Zone of the Florida Building Code.

DESCRIPTION: Plantation Roof Tile

LABELING: Each unit shall bear a permanent label with the manufacturer's name or logo, city, state and following statement: "Miami-Dade County Product Control Approved", unless otherwise noted herein.

RENEWAL of this NOA shall be considered after a renewal application has been filed and there has been no change in the applicable building code negatively affecting the performance of this product.

TERMINATION of this NOA will occur after the expiration date or if there has been a revision or change in the materials, use, and/or manufacture of the product or process. Misuse of this NOA as an endorsement of any product, for sales, advertising or any other purposes shall automatically terminate this NOA. Failure to comply with any section of this NOA shall be cause for termination and removal of NOA.

ADVERTISEMENT: The NOA number preceded by the words Miami-Dade County, Florida, and followed by the expiration date may be displayed in advertising literature. If any portion of the NOA is displayed, then it shall be done in its entirety.

INSPECTION: A copy of this entire NOA shall be provided to the user by the manufacturer or its distributors and shall be available for inspection at the job site at the request of the Building Official.

This NOA renews NOA #14-1120.04 and consists of pages 1 through 7. The submitted documentation was reviewed by Gaspar J Rodriguez.



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ROOFING ASSEMBLY APPROVAL

Category:

Roofing

Sub-Category:

Roofing Tiles

Material:

Concrete

1. PRODUCT DESCRIPTION

<u>Manufactured by</u> <u>Applicant</u>	<u>Dimensions</u>	Test Specifications	Product <u>Description</u>
Plantation Tile	Length: 16½" Width: 13"	TAS 112	Flat concrete roof tile for direct deck or battened nail-on, mortar or adhesive set applications.
Trim Pieces	L = varies W = varies Varying thickness	TAS 112	Accessory trim, concrete roof pieces for use at hips, rakes, ridges and valley terminations. Manufactured for each tile profile.

2.1. MANUFACTURING LOCATION

1. Okeechobee, FL

2.2 SUBMITTED EVIDENCE:

Test Agency	Test Identifier	Test Name/Report	<u>Date</u>
American Test Lab of South Florida	RT0624.05-14	TAS 112	07/03/14
Redland Technologies	7161-03	Static Uplift Testing	Dec. 1991
_	Appendix III	PA 102 & PA 102(A)	
The Center for Applied	94-060B	Static Uplift Testing	March, 1994
Engineering, Inc.	94-084	PA 101 (Adhesive Set) (Mortar Set)	May 1994
Redland Technologies	7161-03	Wind Tunnel Testing	Dec. 1991
	Appendix II	PA 108 (Nail-On)	
Redland Technologies	Letter Dated Aug. 1, 1994	Wind Tunnel Testing PA 108 (Nail-On)	Aug. 1994
Redland Technologies	P0631-01	Wind Tunnel Testing PA 108 (Mortar Set)	July 1994
Redland Technologies	P0402	Withdrawal Resistance Testing of screw vs. smooth shank nails	Sept. 1993
The Center for Applied	Project No. 307025	Wind Driven Rain	Oct. 1994
Engineering, Inc.	Test #MDC-76	PA 100	
Walker Engineering, Inc.	Calculations	Aerodynamic Multiplier	March 1999 April 1999
Walker Engineering, Inc.	Calculations	25-7183	March 1995
==6		25-7094	February 1996
		25-7496	April 1996



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2.2 SUBMITTED EVIDENCE:

Test Agency	Test Identifier	Test Name/Report	<u>Date</u>
Walker Engineering, Inc.	Calculations	25-7584	December 1996
		25-7804b-8	
		25-7804-4 & 5	
		25-7848-6	
Walker Engineering, Inc.	Calculations	Two Patty Adhesive Set System	April 1999
Farabaugh Engineering and	T295-11	TAS-108	10/05/11
Testing Inc.			
Farabaugh Engineering and	T306-11	TAS-108	10/04/11
Testing Inc.			
Farabaugh Engineering and	T279-11	TAS-108	09/23/11
Testing Inc.			

3. LIMITATIONS

- **3.1** Fire classification is not part of this acceptance.
- 3.2 For mortar or adhesive set tile applications, a static field uplift test shall be performed in accordance with TAS 106.
- 3.3 Applicant shall retain the services of a Miami-Dade County Certified Laboratory to perform quarterly test in accordance with TAS 112, appendix 'A'. Such testing shall be submitted to the Miami-Dade Product Control office for review.
- 3.4 Minimum underlayment shall be in compliance with the applicable Roofing Applications Standards listed section 4.1 herein.
- 3.5 30/90 hot mopped underlayment applications may be installed perpendicular to the roof slope unless stated otherwise by the underlayment material manufacturers published literature.
- 3.6 This acceptance is for wood deck applications. Minimum deck requirements shall be in compliance with applicable building code.
- 3.7 All products listed herein shall have a quality assurance audit in accordance with the Florida Building Code and Rule 61G20-3 of the Florida Administrative Code.



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4. Installation

- 4.1 Plantation Roof Tile and its components shall be installed in strict compliance with Roofing Application Standard RAS 118, RAS 119 and RAS 120.
- 4.2 Data For Attachment Calculations

Table 1: Average Weight (W) and Dimensions (I x w)						
Tile Profile Weight-W (lbf) Length-I (ft) Width-w (ft)						
Plantation Tile	11.6	1.375	1.08			

Table 2: Aerodynamic Multipliers - λ (ft ³)					
$\begin{array}{cccc} \text{Tile} & & & & & & & & & \\ & & & & & & & & \\ \text{Profile} & & & & & & \\ & & & & & & \\ & & & & & $					
Plantation Tile	0.267	0.289			

	Table 3: Restoring Moments due to Gravity - Mg (ft-lbf)											
Tile Profile	2": 1	12"	3": 1	12"	4": 1	12"	5": 1	12"	6": 1	12"	Greater 7": 1	
1 101110	Battens	Direct Deck	Battens	Direct Deck	Battens	Direct Deck	Battens	Direct Deck	Battens	Direct Deck	Battens	Direct Deck
Plantation Tile	7.22	7.91	6.85	7.79	6.75	7.67	6.61	7.52	6.44	7.32	6.26	7.04



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Tile Profile	Fastener Type	Direct Deck (Min 15/32" plywood)	Direct Deck (Min. 19/32" plywood)	Battens
Plantation Tile	2-10d Ring Shank Nails	30.9	38.1	17.2
	1-10d Smooth or Screw Shank Nail	7.3	9.8	4.9
	2-10d Smooth or Screw Shank Nails	14.0	18.8	7.4
	1 #8 Screw	30.8	30.8	18.2
	2 #8 Screw	51.7	51.7	24.4
	1-10d Smooth or Screw Shank Nail (Field Clip)	24.3	24.3	24.2
	1-10d Smooth or Screw Shank Nail (Eave Clip)	19.0	19.0	22.1
	2-10d Smooth or Screw Shank Nails (Field Clip)	35.5	35.5	34.8
	2-10d Smooth or Screw Shank Nails (Eave Clip)	31.9	31.9	32.2
	2-10d Ring Shank Nails ¹	50.3	65.5	48.3

	Resistance Expressed as a Mome o Patty Adhesive Set Systems	nt M _f (ft-lbf)
Tile Profile	Tile Application	Minimum Attachment Resistance
Plantation Tile	Adhesive	31.3³
2 See manufactures component approval for insta	allation requirements.	
Flexible Products Company TileBond Average v 3M™ 2-Component Foam Roof Tile Adhesive Al-		

Table 6: Attachment Resistance Expressed as a Moment - M _f (ft-lbf) For Single Patty Adhesive Set Systems						
Tile Profile Tile Application Minimum Attachment Resistance						
Plantation Tile	tation Tile 3M™ 2-Component Foam Roof Tile Adhesive AH-160 118.9⁴					
	3M [™] 2-Component Foam Roof Tile Adhesive AH-160 40.4 ⁵					
4 Large paddy placement of 45 grams of 3M [™] 2-Component Foam Roof Tile Adhesive AH-160						
5 Medium paddy placeme	ent of 24 grams of 3M [™] 2-Component Foam Roof Tile Adhesiv	ve AH-160.				



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Table 7: Attachment Resistance Expressed as a Moment - M _f (ft-lbf) for Mortar Set Systems				
Tile Profile	Tile Application	Attachment Resistance		
See spec	ific mortar manufacturer's Notice of Acce	ptance.		

5. LABELING

All tiles shall bear the imprint or identifiable marking of the manufacturer's name or logo as seen below or following statement: "Miami-Dade County Product Control Approved".



OR



PLANTATION ROOF TILE LABEL (LOCATED ON UNDERSIDE OF TILE)

6. BUILDING PERMIT REQUIREMENTS:

- 6.1 Application for building permit shall be accompanied by copies of the following:
 - **6.1.1** This Notice of Acceptance.
 - **6.1.2** Any other documents required by Building Official or Applicable building code in order to properly evaluate the installation of this system.

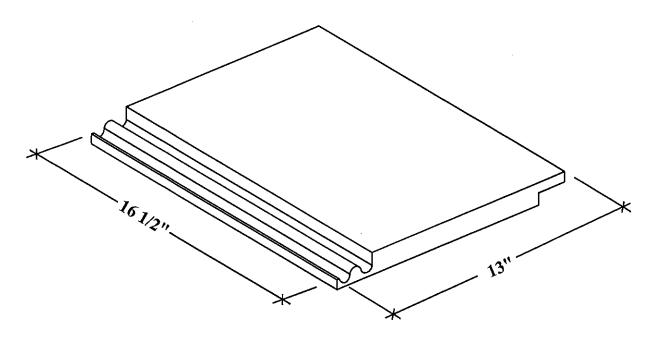


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PROFILE DRAWING

PLANTATION FLAT CONCRETE TILE



END OF THIS ACCEPTANCE



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